

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/527,823
Source: IFWO
Date Processed by STIC: 7/10/06

ENTERED



IFWO

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/527,823

DATE: 07/10/2006
 TIME: 09:42:21

Input Set : A:\PCT.JP.2003.011560 (Sequence Listing).txt
 Output Set: N:\CRF4\07102006\J527823.raw

```

3 <110> APPLICANT: The Chemo-Sero-Therapeutic Research Institute
W--> 4 <120> TITLE OF INVENTION: Human anti-human MCP-1 antibody and fragment thereof
W--> 5 <130> FILE REFERENCE: 663985
C--> 6 <140> CURRENT APPLICATION NUMBER: US/10/527,823
C--> 6 <141> CURRENT FILING DATE: 2005-03-14
6 <150> PRIOR APPLICATION NUMBER: JP 2002-267184
7 <151> PRIOR FILING DATE: 2002-09-12
W--> 8 <160> NUMBER OF SEQ ID: 14
10 <210> SEQ ID NO: 1
11 <211> LENGTH: 366
12 <212> TYPE: DNA
13 <213> ORGANISM: Homo sapiens
W--> 14 <400> SEQUENCE: 1
15 cag gta cag ctg cag cag tca ggg gct gag gtg aag aag cct ggg tcc 48
16 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
17 1 5 10 15
18 tcg gtg aag gtc tcc tgc aag gct tct gga ggc acc ttc agc agc tat 96
19 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 20 25 30
21 gct atc agc tgg gtg cga cag gcc cct gga caa ggg ctt gag tgg atg 144
22 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
23 35 40 45
24 gga ggt ttt gat cct gaa gat ggt gaa aca atc tac gca cag aag ttc 192
25 Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
26 50 55 60
27 cag ggc aga gtc acc atg acc gag gac aca tct aca gac aca gcc tac 240
28 Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
29 65 70 75 80
30 atg gag ctg agc agc ctg aga tct gag gac acg gcc gtg tat tac tgt 288
31 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
32 85 90 95
33 gca aca gat ctt ggc gga ggt gac tac tac tac ggt atg gac gtc tgg 336
34 Ala Thr Asp Leu Gly Gly Gly Asp Tyr Tyr Tyr Gly Met Asp Val Trp
35 100 105 110
36 ggc cca ggg acc acg gtc acc gta tcc tca 366
37 Gly Pro Gly Thr Thr Val Thr Val Ser Ser
38 115 120
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 122
42 <212> TYPE: PRT
43 <213> ORGANISM: Homo sapiens
W--> 44 <400> SEQUENCE: 2
45 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

```

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```

46 1          5          10          15
47 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
48          20          25          30
49 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
50          35          40          45
51 Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
52          50          55          60
53 Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
54 65          70          75          80
55 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
56          85          90          95
57 Ala Thr Asp Leu Gly Gly Gly Asp Tyr Tyr Tyr Gly Met Asp Val Trp
58          100          105          110
59 Gly Pro Gly Thr Thr Val Thr Val Ser Ser
60          115          120

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62 <210> SEQ ID NO: 3

63 <211> LENGTH: 5

64 <212> TYPE: PRT

65 <213> ORGANISM: Homo sapiens

W--> 66 <220> FEATURE:

67 <223> OTHER INFORMATION: CDR1 corresponding to amino acids No. 31 to No. 35 in SEQ ID

NO: 2

W--> 68 <400> SEQUENCE: 3

69 Ser Tyr Ala Ile Ser

70 1 5

72 <210> SEQ ID NO: 4

73 <211> LENGTH: 17

74 <212> TYPE: PRT

75 <213> ORGANISM: Homo sapiens

W--> 76 <220> FEATURE:

77 <223> OTHER INFORMATION: CDR2 corresponding to amino acids No. 50 to No. 66 in SEQ ID

NO: 2

W--> 78 <400> SEQUENCE: 4

79 Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe Gln

80 1 5 10 15

81 Gly

83 <210> SEQ ID NO: 5

84 <211> LENGTH: 13

85 <212> TYPE: PRT

86 <213> ORGANISM: Homo sapiens

W--> 87 <220> FEATURE:

88 <223> OTHER INFORMATION: CDR3 corresponding to amino acids No. 99 to No. 111 in SEQ ID

NO: 2

W--> 89 <400> SEQUENCE: 5

90 Asp Leu Gly Gly Asp Tyr Tyr Tyr Gly Met Asp Val

91 1 5 10

93 <210> SEQ ID NO: 6

94 <211> LENGTH: 324

95 <212> TYPE: DNA

96 <213> ORGANISM: Homo sapiens

W--> 97 <400> SEQUENCE: 6

98 gac atc cag ttg acc cag tct cct tcc acc ctg tct gct tct gtc ggg 48

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99 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
100 1          5          10          15
101 gac aga gcc acc atc tct tgc cgg tct agt cag agc att aac acc tat      96
102 Asp Arg Ala Thr Ile Ser Cys Arg Ser Ser Gln Ser Ile Asn Thr Tyr
103          20          25          30
104 tta cat tgg tat cag cag aaa cca ggg gaa gcc cct aaa ctc ctg atc      144
105 Leu His Trp Tyr Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu Ile
106          35          40          45
107 tat gct gct tcc acc ttg caa agt ggg gtc cca tca aga ttc agt ggc      192
108 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
109          50          55          60
110 agt gga tct ggg aca gat ttc act ctc acc atc acc act ctc caa cct      240
111 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Thr Leu Gln Pro
112 65          70          75          80
113 gaa gat ttt gca act tat tac tgc caa cag agt ttc act acc cca ctc      288
114 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Thr Thr Pro Leu
115          85          90          95
116 act ttc ggc gga ggg acc aag gtg gag atc aaa cgt      324
117 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
118          100          105
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 108
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapiens
W--> 124 <400> SEQUENCE: 7
125 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
126 1          5          10          15
127 Asp Arg Ala Thr Ile Ser Cys Arg Ser Ser Gln Ser Ile Asn Thr Tyr
128          20          25          30
129 Leu His Trp Tyr Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu Ile
130          35          40          45
131 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
132          50          55          60
133 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Thr Leu Gln Pro
134 65          70          75          80
135 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Thr Thr Pro Leu
136          85          90          95
137 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
138          100          105
140 <210> SEQ ID NO: 8
141 <211> LENGTH: 11
142 <212> TYPE: PRT
143 <213> ORGANISM: Homo sapiens
W--> 144 <220> FEATURE:
145 <223> OTHER INFORMATION: CDR1 corresponding to amino acids No. 24 to No. 34 in SEQ ID
NO: 7
W--> 146 <400> SEQUENCE: 8
147 Arg Ser Ser Gln Ser Ile Asn Thr Tyr Leu His
148 1          5          10
150 <210> SEQ ID NO: 9

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151 <211> LENGTH: 7
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
W--> 154 <220> FEATURE:
155 <223> OTHER INFORMATION: CDR2 corresponding to amino acids No. 50 to No. 56 in SEQ ID
NO: 7
W--> 156 <400> SEQUENCE: 9
157 Ala Ala Ser Thr Leu Gln Ser
158 1 5
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 9
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
W--> 164 <220> FEATURE:
165 <223> OTHER INFORMATION: CDR3 corresponding to amino acids No. 89 to No. 97 in SEQ ID
NO: 7
W--> 166 <400> SEQUENCE: 10
167 Gln Gln Ser Phe Thr Pro Leu Thr
168 1 5
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 42
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial
W--> 174 <220> FEATURE:
175 <223> OTHER INFORMATION: VH chain sense primer
W--> 176 <400> SEQUENCE: 11
177 cgtggctcct gggccacag ccaggtacag ctgcagcagt ca
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 20
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
W--> 183 <220> FEATURE:
184 <223> OTHER INFORMATION: VH chain antisense primer
W--> 185 <400> SEQUENCE: 12
186 tgaggatacg gtgaccgtgg
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 42
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial
W--> 192 <220> FEATURE:
193 <223> OTHER INFORMATION: VL chain sense primer
W--> 194 <400> SEQUENCE: 13
195 cgtggctcct gggccacag cgacatccag ttgacccagt ct
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 20
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial
W--> 201 <220> FEATURE:
202 <223> OTHER INFORMATION: VL chain antisense primer
W--> 203 <400> SEQUENCE: 14
204 acgtttgatc tccaccttgg

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/10/2006
PATENT APPLICATION: US/10/527,823 TIME: 09:42:22

Input Set : A:\PCT.JP.2003.011560 (Sequence Listing).txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:11,12,13,14

VERIFICATION SUMMARY

DATE: 07/10/2006

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TIME: 09:42:22

Input Set : A:\PCT.JP.2003.011560 (Sequence Listing).txt
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L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:270 C: Current Application Number differs, Replaced Current Application No
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:8 M:283 W: Missing Blank Line separator, <160> field identifier
L:14 M:283 W: Missing Blank Line separator, <400> field identifier
L:44 M:283 W: Missing Blank Line separator, <400> field identifier
L:66 M:283 W: Missing Blank Line separator, <220> field identifier
L:68 M:283 W: Missing Blank Line separator, <400> field identifier
L:76 M:283 W: Missing Blank Line separator, <220> field identifier
L:78 M:283 W: Missing Blank Line separator, <400> field identifier
L:87 M:283 W: Missing Blank Line separator, <220> field identifier
L:89 M:283 W: Missing Blank Line separator, <400> field identifier
L:97 M:283 W: Missing Blank Line separator, <400> field identifier
L:124 M:283 W: Missing Blank Line separator, <400> field identifier
L:144 M:283 W: Missing Blank Line separator, <220> field identifier
L:146 M:283 W: Missing Blank Line separator, <400> field identifier
L:154 M:283 W: Missing Blank Line separator, <220> field identifier
L:156 M:283 W: Missing Blank Line separator, <400> field identifier
L:164 M:283 W: Missing Blank Line separator, <220> field identifier
L:166 M:283 W: Missing Blank Line separator, <400> field identifier
L:174 M:283 W: Missing Blank Line separator, <220> field identifier
L:176 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:283 W: Missing Blank Line separator, <220> field identifier
L:185 M:283 W: Missing Blank Line separator, <400> field identifier
L:192 M:283 W: Missing Blank Line separator, <220> field identifier
L:194 M:283 W: Missing Blank Line separator, <400> field identifier
L:201 M:283 W: Missing Blank Line separator, <220> field identifier
L:203 M:283 W: Missing Blank Line separator, <400> field identifier